

Contents

T.L. DEAN (Providence, RI) and D.V. McDERMOTT (New Haven, CT)

1 Temporal Data Base Management

R. REITER (Toronto, Ont.)

57 A Theory of Diagnosis from First Principles

J. DE KLEER (Palo Alto, CA) and B.C. WILLIAMS (Cambridge, MA)

97 Diagnosing Multiple Faults

T. IMIELINSKI (New Brunswick, NJ)

131 Results on Translating Defaults to Circumscription (Research Note)

ANNOUNCEMENTS

147 Fourth International Symposium on Robotics and Artificial Intelligence
in Building Construction

147 Call for Papers: Directions and Implications of Advanced Computing

149 FORTHCOMING PAPERS

D.E. SHAW (New York)

151 On the Range of Applicability of an Artificial Intelligence Machine

B.J. GROSZ, D.E. APPELT, P.A. MARTIN and F.C.N. PEREIRA
(Menlo Park, CA)

173 TEAM: An Experiment in the Design of Transportable Natural-
Language Interfaces

J. PEARL (Los Angeles, CA)

245 Evidential Reasoning Using Stochastic Simulation of Causal Models
(Research Note)

S. CUSHING (North Easton, MA)

259 Some Quantifiers Require Two-Predicate Scopes (Research Note)

BOOK REVIEW

269 "Universal Subgoaling and Chunking: The Automatic Generation and
Learning of Goal Hierarchies", by J. Laird, P. Rosenbloom and
A. Newell, reviewed by J. Shrager

ANNOUNCEMENT

275 The Catalogue of Artificial Intelligence Techniques

279 FORTHCOMING PAPERS

E. DAVIS (New York, NY)

281 Constraint Propagation with Interval Labels

D. CHAPMAN (Cambridge, MA)

333 Planning for Conjunctive Goals

J.Y. HALPERN (San Jose, CA) and M.O. RABIN (Jerusalem, Israel)

379 A Logic to Reason about Likelihood

BOOK REVIEW

407 "Tense and Aspect Systems" by O. Dahl, reviewed by A. Nakhimovsky

ANNOUNCEMENTS

411 Austrian Meeting on Artificial Intelligence

412 Call for Papers: AI '87

413 Call for Papers: COLING '88

414 Artificial Intelligence Abstracts

417 FORTHCOMING PAPERS

420 AUTHOR INDEX - Volume 32, 1987

421 CONTENTS - Volume 32, 1987

